=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 10:33:54 ON 10 OCT 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 10 Oct 2006 VOL 145 ISS 16 FILE LAST UPDATED: 8 Oct 2006 (20061008/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> d all hitstr tot
L101 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:299648 HCAPLUS
   142:376493
DN
ED
  Entered STN: 07 Apr 2005
  Electrolyte solution and secondary lithium battery which uses
    the solution
IN
   Nirasawa, Takao; Komaru, Atsuo
PA
   Sony Corp., Japan
SO
    Jpn. Kokai Tokkyo Koho, 23 pp.
    CODEN: JKXXAF
DT
    Patent
LA
    Japanese
    ICM H01M0010-40
IC
    ICS H01G0009-038; H01M0004-38; H01M0006-16
CC
    52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
FAN.CNT 1
    PATENT NO.
                     KIND DATE
                                      APPLICATION NO.
                     ----
                           -----
    -----
                                       -----
                                                            _____
    JP 2005093237
                      A2
                             20050407
                                     JP 2003-324947
PΙ
                                                           20030917
PRAI JP 2003-324947
                             20030917
CLASS
               CLASS PATENT FAMILY CLASSIFICATION CODES
PATENT NO.
 -----
              ____
                     ______
JP 2005093237
               ICM
                     H01M0010-40
               ICS
                     H01G0009-038; H01M0004-38; H01M0006-16
               IPCI
                     H01M0010-40 [ICM, 7]; H01M0010-36 [ICM, 7, C*];
                     H01G0009-038 [ICS,7]; H01G0009-022 [ICS,7,C*];
                     H01M0004-38 [ICS,7]; H01M0006-16 [ICS,7]
               IPCR
                     H01G0009-022 [I,C*]; H01G0009-038 [I,A]; H01M0004-38
                     [I,A]; H01M0004-38 [I,C*]; H01M0006-16 [I,A];
                     H01M0006-16 [I,C*]; H01M0010-36 [I,C*]; H01M0010-40
```

FTERM 5H024/AA01; 5H024/AA02; 5H024/AA07; 5H024/AA12;

```
5H024/BB09; 5H024/CC02; 5H024/CC12; 5H024/FF14;
                        5H024/FF15; 5H024/FF16; 5H024/FF17; 5H024/FF18;
                        5H024/FF19; 5H024/FF20; 5H024/FF31; 5H024/HH08;
                        5H029/AJ03; 5H029/AJ05; 5H029/AK02; 5H029/AK03;
                        5H029/AK05; 5H029/AL01; 5H029/AL02; 5H029/AL12;
                        5H029/AM02; 5H029/AM03; 5H029/AM04; 5H029/AM05;
                        5H029/AM06; 5H029/AM07; 5H029/BJ02; 5H029/BJ14;
                        5H029/HJ02; 5H029/HJ10; 5H050/AA07; 5H050/AA08;
                        5H050/BA06; 5H050/BA16; 5H050/CA02; 5H050/CA08;
                        5H050/CA09; 5H050/CA11; 5H050/CB01; 5H050/CB02;
                        5H050/CB12; 5H050/EA10; 5H050/EA24; 5H050/FA05;
                        5H050/HA02; 5H050/HA10
AB
     The electrolyte solution has an active O containing compound The battery has a
     cathode, an anode, and the above electrolyte solution
ST
     secondary lithium battery electrolyte active oxygen contg compd
IT
     Battery electrolytes
        (electrolyte solns. containing oxy radical compds. for secondary
        lithium batteries)
IT
     96-49-1, Ethylene carbonate
                                   105-58-8, Diethyl carbonate
                    12668-36-9 14283-07-9, Lithium
     Graphite, uses
     tetrafluoroborate 21324-40-3, Lithium
     hexafluorophosphate
                         37292-50-5 39286-52-7 90076-65-6
     132843-44-8
     RL: DEV (Device component use); USES (Uses)
        (electrolyte solns. containing oxy radical compds. for secondary
        lithium batteries)
     2370-18-5
                             2700-36-9
IT
                2525-39-5
                                         4647-83-0
                                                     103760-32-3
     RL: MOA (Modifier or additive use); USES (Uses)
        (electrolyte solns. containing oxy radical compds. for secondary
        lithium batteries)
ΙT
     14283-07-9, Lithium tetrafluoroborate 21324-40-3
     , Lithium hexafluorophosphate 39286-52-7
     90076-65-6 132843-44-8
     RL: DEV (Device component use); USES (Uses)
        (electrolyte solns. containing oxy radical compds. for secondary
        lithium batteries)
RN
     14283-07-9 HCAPLUS
CN
     Borate(1-), tetrafluoro-, lithium (8CI, 9CI) (CA INDEX NAME)
```

● Li+

RN 21324-40-3 HCAPLUS CN Phosphate(1-), hexafluoro-, lithium (8CI, 9CI) (CA INDEX NAME)

### • Li +

RN 39286-52-7 HCAPLUS

CN Cobalt alloy, nonbase, Co, Sn (9CI) (CA INDEX NAME)

Component Component
Registry Number
Co 7440-48-4

Co 7440-48-4 Sn 7440-31-5

RN 90076-65-6 HCAPLUS

CN Methanesulfonamide, 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]-,
 lithium salt (9CI) (CA INDEX NAME)

### • Li

RN 132843-44-8 HCAPLUS

CN Ethanesulfonamide, 1,1,2,2,2-pentafluoro-N-[(pentafluoroethyl)sulfonyl]-, lithium salt (9CI) (CA INDEX NAME)

#### • Li

L101 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

```
2001:691889 HCAPLUS
ΑN
DN
    135:229387
ED
    Entered STN: 21 Sep 2001
ΤI
    Battery with nonaqueous electrolyte and improved anode active material
IN
    Inagaki, Hiroki; Takami, Norio
    Kabushiki Kaisha Toshiba, Japan
PA
    Eur. Pat. Appl., 12 pp.
SO
    CODEN: EPXXDW
DT
    Patent
    English
LA
IC
    ICM H01M0004-38
    ICS H01M0004-46; H01M0004-48; H01M0004-58
    52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
CC
    Section cross-reference(s): 56
FAN.CNT 1
    PATENT NO.
                      KIND DATE
                                        APPLICATION NO.
                       ____
    _____
                              -----
                                          -----
                                                                -----
    EP 1134824
                        A2
PΙ
                              20010919
                                        EP 2001-302081
                                                                20010307
    EP 1134824
                        A3
                              20031029
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
    US 2001046629
                      A1
                               20011129
                                          US 2001-797883
                                                                20010305
    US 6686090
                       B2
                               20040203
                     A2
    JP 2001332253
                               20011130
                                          JP 2001-72061
                                                                20010314
    JP 3648458
                       B2
                              20050518
    CN 1313645
                       Α
                              20010919
                                          CN 2001-111478
                                                                20010315
PRAI JP 2000-72377
                       Α
                              20000315
CLASS
PATENT NO.
                CLASS PATENT FAMILY CLASSIFICATION CODES
 ______
               _____
EP 1134824
                ICM
                       H01M0004-38
                ICS
                       H01M0004-46; H01M0004-48; H01M0004-58
                IPCI
                       H01M0004-38 [ICM, 6]; H01M0004-46 [ICS, 6]; H01M0004-48
                       [ICS, 6]; H01M0004-58 [ICS, 6]
                IPCR
                       H01M0004-38 [I,C*]; H01M0004-38 [I,A]; H01M0004-46
                       [I,C*]; H01M0004-46 [I,A]
US 2001046629
                IPCI
                       H01M0004-40 [ICM, 7]; H01M0004-58 [ICS, 7]; H01M0004-62
                       [ICS, 7]
                       H01M0004-38 [I,A]; H01M0004-38 [I,C*]; H01M0004-46
                IPCR
                       [I,A]; H01M0004-46 [I,C*]
                NCL
                       429/231.900; 429/217.000; 429/218.100; 429/221.000;
                       429/223.000
JP 2001332253
                IPCI
                       H01M0004-38 [ICM, 7]; H01M0004-02 [ICS, 7]; H01M0010-40
                       [ICS,7]; H01M0010-36 [ICS,7,C*]
                       H01M0010-36 [I,C*]; H01M0010-40 [I,A]; H01M0004-02
                IPCR
                       [I,C^*]; HO1MO004-02 [I,A]; HO1MO004-38 [I,C^*];
                       H01M0004-38 [I,A]
CN 1313645
                IPCI
                       H01M0004-38; H01M0004-62; H01M0010-36
                IPCR
                       H01M0004-38 [I,C*]; H01M0004-38 [I,A]; H01M0004-46
                       [I,C*]; H01M0004-46 [I,A]
    The development of a new anode material led to the provision of a battery
AB
    with nonaq. electrolyte which has a combination of a high discharge
    capacity with excellent cycling characteristics. The battery with nonag.
    electrolyte comprises: a cathode and an anode having an anode active
    material capable of occluding and releasing an alkali metal. The anode
    active material contains ≥1 element selected from the group
    consisting of Group 4B elements and Group 5B elements and has \geq 1
    crystal structure selected from the group consisting of BiF3 structure,
    Cu2MnAl structure, and AqAsMq structure. The anode active material
    contains ≥1 element selected from the group consisting of Al, Si,
```

```
Ge, Sn, P, Sb, and Bi and has ≥1 crystal structure selected from
     the group consisting of BiF3 structure, Cu2MnAl structure, and AgAsMg
     structure.
ST
     anode battery nonaq electrolyte
ΙT
     Battery anodes
     Secondary batteries
        (battery with nonaq. electrolyte and improved anode active material)
TT
     Alkali metals, uses
     Group IVB elements
     Group VB elements
     RL: DEV (Device component use); USES (Uses)
        (battery with nonaq. electrolyte and improved anode active material)
TΤ
     Carbon black, uses
     RL: MOA (Modifier or additive use); USES (Uses)
        (battery with nonaq. electrolyte and improved anode active material)
TT
     Fluoro rubber
     Fluoropolymers, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (binder; battery with nonaq. electrolyte and improved anode active
        material)
IT
     Synthetic rubber, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (butadiene-ethylene, binder; battery with nonaq. electrolyte and
        improved anode active material)
IT
     96-49-1, Ethylene carbonate
                                   623-53-0, Ethyl methyl carbonate
     7429-90-5, Aluminum, uses
                                 7440-21-3, Silicon, uses 7440-31-5,
     Tin, uses
                7440-36-0, Antimony, uses
                                             7440-56-4, Germanium, uses
     7440-69-9, Bismuth, uses
                               7723-14-0, Phosphorus, uses
                                                             11056-42-1
     11118-07-3
                  12003-42-8
                               12023-54-0, Iron silicide (Fe3Si)
                                                                   12032-71-2
     12059-23-3
                  12133-96-9
                               12163-59-6, Manganese silicide (Mn3Si)
     12190-79-3, Cobalt lithium oxide colio2
                                               12423-44-8
     12502-69-1
                 12526-54-4
                              12526-55-5 12534-03-1 21324-40-3,
     Lithium hexafluorophosphate
                                   60968-66-3
                                                66590-17-8
     75349-09-6
                  99787-36-7
                               105110-44-9
                                            149571-46-0
                                                           149571-49-3
     359783-12-3
                  359783-13-4
                                 359783-14-5
                                               359783-15-6
                                                             359783-16-7
     359783-17-8, Antimony manganese nickel phosphide (Sb0.8MnNi2P0.2)
     359783-18-9, Antimony cobalt manganese phosphide (Sb0.8Co2MnP0.2)
     359783-19-0
                  359783-20-3
                                 359783-21-4, Nickel tin titanium silicide
     (NiSn0.8TiSi0.2)
                        359783-22-5, Cobalt tin titanium silicide
     (CoSn0.8TiSi0.2)
                        359783-23-6
                                      359783-24-7 359783-25-8
     359783-26-9
     RL: DEV (Device component use); USES (Uses)
        (battery with nonaq. electrolyte and improved anode active material)
TΤ
     7782-42-5, Graphite, uses
     RL: MOA (Modifier or additive use); USES (Uses)
        (battery with nonaq. electrolyte and improved anode active material)
     9002-84-0, Ptfe
                       9004-32-4, Cmc 24937-79-9, Pvdf
IT
     RL: TEM (Technical or engineered material use); USES (Uses)
        (binder; battery with nonaq. electrolyte and improved anode active
        material)
IT
    7440-31-5, Tin, uses 12190-79-3, Cobalt lithium
     oxide colio2 21324-40-3, Lithium hexafluorophosphate
     75349-09-6 359783-25-8 359783-26-9
     RL: DEV (Device component use); USES (Uses)
        (battery with nonaq. electrolyte and improved anode active material)
    7440-31-5 HCAPLUS
RN
CN
    Tin (8CI, 9CI) (CA INDEX NAME)
```

Sn

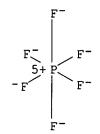
RN 12190-79-3 HCAPLUS

CN Cobalt lithium oxide (CoLiO2) (9CI) (CA INDEX NAME)

Component	1	Ratio		Component Registry Number
	==+==		===+=	=======================================
0	- 1	2	1	17778-80-2
Co		1	1	7440-48-4
Li	1	1	1	7439-93-2

RN 21324-40-3 HCAPLUS

CN Phosphate(1-), hexafluoro-, lithium (8CI, 9CI) (CA INDEX NAME)



• Li+

RN 75349-09-6 HCAPLUS

CN Cobalt, compd. with tin (3:1) (7CI, 9CI) (CA INDEX NAME)

Component	    +-	Ratio	   	Component Registry Number
Co Sn	   	3 1	+-   	7440-48-4 7440-31-5

RN 359783-25-8 HCAPLUS

CN Antimony, compd. with lithium, manganese and nickel (1:1:1:2) (9CI) (CA INDEX NAME)

Component	1	Ratio	1	Component Registry Number
==========	==+==		=+=	
Sb	1	1	1	7440-36-0
Ni	- 1	2	-	7440-02-0
Mn	1	1	-1	7439-96-5
Li	1	1	-1	7439-93-2

RN 359783-26-9 HCAPLUS

CN Antimony, compd. with cobalt, lithium and manganese (1:2:0.1:1) (9CI) (CA INDEX NAME)

Component | Ratio | Component

```
| Registry Number
Co
            - 1
               2
                                         7440-48-4
                     1
Sb
            - 1
                                         7440-36-0
                                Mn
                      1
             - 1
                                         7439-96-5
                                - 1
Li
                     0.1
             1
                                         7439-93-2
                                L101 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
AN
    1998:804120 HCAPLUS
    130:54847
DN
ED
    Entered STN: 23 Dec 1998
    Anode materials for secondary nonaqueous-electrolyte batteries and
TΙ
    batteries using these materials
IN
    Shimamura, Harunari; Okamura, Kazuhiro; Nitta, Yoshiaki
    Matsushita Electric Industrial Co., Ltd., Japan
PA
SO
    Eur. Pat. Appl., 25 pp.
    CODEN: EPXXDW
DT
    Patent
LA
    English
IC
    ICM H01M0004-40
    ICS H01M0004-36; H01M0004-02
    52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
CC
FAN.CNT 7
    PATENT NO.
                             DATE
                      KIND
                                       APPLICATION NO.
                      ----
    -----
                             -----
                                        ______
                                                              _____
    EP 883199 A1 19981209
EP 883199 B1 20030507
PΙ
                             19981209 EP 1998-110110
                                                             19980603
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
    JP 2000030703 A2
                             20000128
                                       JP 1998-150966
                                                              19980601
                       A1
    HK 1015550
                                      HK 1999-100282
                             20030905
                                                             19990121
PRAI JP 1997-144873
                       Α
                             19970603
                       Α
    JP 1998-123199
                             19980506
CLASS
 PATENT NO.
               CLASS PATENT FAMILY CLASSIFICATION CODES
               ----
                      _____
 EP 883199
               ICM
                      H01M0004-40
               ICS
                      H01M0004-36; H01M0004-02
               IPCI
                      H01M0004-40 [ICM, 6]; H01M0004-36 [ICS, 6]; H01M0004-02
               IPCR
                      H01M0004-02 [I,C*]; H01M0004-02 [I,A]; H01M0004-36
                      [I,C*]; H01M0004-36 [I,A]; H01M0004-40 [I,C*];
                      H01M0004-40 [I,A]
               ECLA
                      H01M004/02B; H01M004/36; H01M004/40
 JP 2000030703
               IPCI
                      H01M0004-38 [ICM, 7]; H01M0004-02 [ICS, 7]; H01M0004-40
                      [ICS,7]; H01M0004-46 [ICS,7]; H01M0004-58 [ICS,7];
                      H01M0010-40 [ICS,7]; H01M0010-36 [ICS,7,C*]
                      H01M0004-02 [I,A]; H01M0004-02 [I,C*]; H01M0004-38
               IPCR
                      [I,A]; H01M0004-38 [I,C*]; H01M0004-40 [I,A];
                      H01M0004-40 [I,C*]; H01M0004-46 [I,A]; H01M0004-46
                      [I,C*]; H01M0004-58 [I,A]; H01M0004-58 [I,C*];
                      H01M0010-36 [I,C*]; H01M0010-40 [I,A]
                      H01M [ICM, 7]
HK 1015550
               IPCI
               IPCR
                      H01M0004-02 [I,C*]; H01M0004-02 [I,A]; H01M0004-36
                      [I,C^*]; H01M0004-36 [I,A]; H01M0004-40 [I,C^*];
                      H01M0004-40 [I,A]
AB
    The composite title materials comprise a core formed by a solid phase A,
    and a solid phase Q partly or entirely wrapping the core. The amount of
```

Li intercalation and deintercalation by the phase A resulting from

```
the charge and discharge is higher than that by the phase Q, however, the
     discharge capacity decrease of the phase Q resulting from battery cycling
     is low.
             The solid phase A comprises 1 of the materials selected from
    Li, ≥1 of the elements which is able to alloy with
    Li, solid solution including ≥1 of the above elements being
     able to alloy with Li, or an intermetallic compound including
    ≥1 of the above elements being able to alloy with Li.
     The solid phase Q has a different composition, but comprises the same kind of
    materials except Li by itself as those of the solid phase A.
     is essential that the solid phase Q is a mixed conductor having electronic
     as well as Li ionic conductivity When these materials are used in the
     anode, a secondary nonaq.-electrolyte battery can be realized featuring
     high reliability, high cycle characteristic, a high capacity, and
     excellent high-rate charge and discharge characteristics.
     anode composite material nonaq electrolyte battery
     Battery anodes
        (composite materials for secondary nonag.-electrolyte)
     7439-93-2, Lithium, uses
     RL: DEV (Device component use); USES (Uses)
        (in composite anodes for secondary nonag.-electrolyte batteries)
     7439-98-7, Molybdenum, uses
                                   7440-21-3, Silicon, uses 12057-22-6
     , LiZn 12338-02-2 12359-06-7 12372-42-8,
     InLi 12588-27-1
                       12606-83-6
                                    12625-55-7
                                                  12635-26-6
     12719-97-0
                  12779-78-1
                               37201-99-3
                                             37254-87-8
                                                          37345-56-5
     39328-55-7
                  42616-53-5
                               52359-88-3
                                             53550-31-5
                                                          53680-56-1
     54739-65-0
                  54966-99-3
                               55823-21-7 56095-13-7
                                                        57896-14-7
     57952-74-6
                  58817-42-8
                               58817-44-0
                                             60224-91-1
                                                          65467-06-3, Barium
     alloy, Ba 56, Al 44
                          66758-27-8
                                        67661-05-6 67828-86-8
     68714-90-9
                  72048-17-0
                               73730-53-7
                                             73990-63-3
                                                          74662-93-4
     77325-33-8 78966-19-5
                             79818-26-1
                                           80507-64-8
                                                        81754-08-7
     81876-77-9
                  81876-81-5 82906-17-0
                                           85746-90-3
                                                        87646-31-9
     90738-65-1
                  96958-82-6
                               100502-97-4
                                              101406-54-6
                                                            110109-09-6
     110414-25-0
                   110633-84-6
                                 112787-78-7
                                                113470-14-7
                                                              114016-83-0
     117816-43-0
                   118035-89-5
                                 119281-87-7
                                                119469-25-9
                                                              122381-65-1
     126034-61-5
                   127706-34-7
                                 128491-68-9
                                                128491-69-0
                                                              131082-81-0
     137747-27-4
                   140154-87-6 142536-01-4
                                              145604-95-1
     147856-99-3
                   148844-98-8
                                 155759-82-3
                                                158140-18-2
                                                              172919-16-3
     173790-72-2
                   198958-08-6
                                 204000-16-8
                                                217074-33-4
                                                              217074-37-8
     217074-44-7
                   217074-48-1
                                 217074-51-6
                                                217074-53-8
                                                              217074-57-2
     217074-65-2
                   217074-68-5
                                 217074-71-0
                                                217074-75-4
                                                              217075-09-7
     217075-12-2
                   217075-19-9
                                 217075-21-3
                                                217075-23-5
                                                              217075-26-8
     217075-28-0
                   217075-30-4
                                 217075-34-8
                                                217075-38-2
                                                              217075-39-3
     217075-40-6
                   217075-41-7
                                 217075-42-8
                                                217075-43-9
                                                              217075-44-0
     217075-45-1
                   217075-46-2
                                 217075-47-3
                                                217075-48-4
                                                              217075-49-5
     217075-50-8
                   217075-51-9
                                 217075-52-0
                                                217075-53-1
                                                              217075-54-2
     217075-55-3
                   217075-56-4
                                 217075-57-5
                                                217075-58-6
                                                              217075-59-7
     217075-61-1
                   217075-62-2
                                 217075-63-3
                                                217075-64-4
                                                              217075-65-5
    RL: DEV (Device component use); PRP (Properties); USES (Uses)
        (in composite anodes for secondary nonaq.-electrolyte batteries)
     79933-53-2P
                   126500-61-6P
                                  169217-08-7P
                                                  217075-66-6P
     RL: DEV (Device component use); SPN (Synthetic preparation); PREP
     (Preparation); USES (Uses)
        (in composite anodes for secondary nonaq.-electrolyte batteries)
RE.CNT
              THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
(1) Hope Techn Inc; EP 0693568 A 1996 HCAPLUS
(2) Huggins, R; US 4950566 A 1990 HCAPLUS
(3) Le Mehaute, A; US 4495258 A 1985 HCAPLUS
(4) McManis, G; US 4632889 A 1986 HCAPLUS
    7439-93-2, Lithium, uses
```

ST

TT

IT

IT

ΙT

RE

ΙT

RL: DEV (Device component use); USES (Uses)
(in composite anodes for secondary nonaq.-electrolyte batteries)
7439-93-2 HCAPLUS
Lithium (7CI, 8CI, 9CI) (CA INDEX NAME)

Li

RN

CN

IT 12057-22-6, LiZn 12338-02-2 12359-06-7 12372-42-8, InLi 12588-27-1 56095-13-7 67828-86-8 78966-19-5 82906-17-0 142536-01-4

RL: DEV (Device component use); PRP (Properties); USES (Uses) (in composite anodes for secondary nonaq.-electrolyte batteries)

RN 12057-22-6 HCAPLUS

CN Lithium, compd. with zinc (1:1) (9CI) (CA INDEX NAME)

Component	!	Ratio	1	Component Registry Number
Zn Li	=+=====   	======================================	= + =:   	7440-66-6 7439-93-2

RN 12338-02-2 HCAPLUS

CN Bismuth, compd. with lithium (1:3) (6CI, 9CI) (CA INDEX NAME)

Component	1	Ratio	1	Component
	- 1		1	Registry Number
	==+==		==+==	
Bi	1	1	- 1	7440-69-9
Li	- 1	3	- 1	7439-93-2

RN 12359-06-7 HCAPLUS

CN Lithium, compd. with tin (4:1) (6CI, 9CI) (CA INDEX NAME)

Component	1	Ratio	1	Component
	1		j	Registry Number
=======================================	=+=====	==========	=+=	=======================================
Sn	1	1	1	7440-31-5
Li	1	4	1	7439-93 <b>-</b> 2

RN 12372-42-8 HCAPLUS

CN Indium, compd. with lithium (1:1) (7CI, 8CI, 9CI) (CA INDEX NAME)

Component	1	Ratio	 	Component Registry Number
==========	=+==	=======================================	+=:	
In	1	1		7440-74-6
Li		1		7439-93-2

RN 12588-27-1 HCAPLUS

CN Aluminum, compd. with lithium (1:2) (6CI, 9CI) (CA INDEX NAME)

Component	- 1	Ratio	-	Component
				Registry Number
~==========	==+==	=======================================	+=	=======================================
Li		2		7439-93-2
Al	- 1	1	1	7429-90-5

RN 56095-13-7 HCAPLUS

CN Lead, compd. with lithium (1:4) (6CI, 9CI) (CA INDEX NAME)

Component	   	Ratio	    -	Component Registry Number
Li Pb	+-   		+=   	7439-93-2 7439-92-1

RN 67828-86-8 HCAPLUS

CN Tin alloy, base, Sn 80, Co 20 (9CI) (CA INDEX NAME)

Component	Component	Component			
	Percent	Registry Number			
======+=	=========	=+========			
Sn	80	7440-31-5			
Co	20	7440-48-4			

RN 78966-19-5 HCAPLUS

CN Tin alloy, base, Sn 67, Co 33 (9CI) (CA INDEX NAME)

Component	Component	Component
	Percent	Registry Number
======+=		-+========
Sn	67	7440-31-5
Co	33	7440-48-4

RN 82906-17-0 HCAPLUS

CN Cadmium, compd. with lithium (1:3) (9CI) (CA INDEX NAME)

Component	 	Ratio	1	Component Registry Number
	=+=:		=+=	=======================================
Cd	- 1	1	1	7440-43-9
Li	- 1	3	- 1	7439-93-2

RN 142536-01-4 HCAPLUS

CN Titanium alloy, base, Ti 80, Li 20 (9CI) (CA INDEX NAME)

Component	Component	Component
	Percent	Registry Number
======+=	=========	=+========
Ti	80	7440-32-6
Li	20	7439-93-2

=> sel hit rn

HIGHEST E# ASSIGNED. SELECT NOT VALID.

You cannot assign more values to E#s because the maximum E# has been reached. Enter "DELETE SELECT" to remove all E# assignments. The next SELECT command will begin again with E1.

=> => d ide can tot 1112

L112 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2006 ACS on STN RN 78966-19-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Tin alloy, base, Sn 67, Co 33 (9CI) (CA INDEX NAME) OTHER NAMES:

```
CN Cobalt 50, tin 50 (atomic) MF Co . Sn
```

CI AYS

LC STN Files: CA, CAPLUS, USPATFULL

Component	Component	Component
	Percent	Registry Number
=======+=	=========	-+============
Sn	67	7440-31-5
Со	33	7440-48-4

11 REFERENCES IN FILE CA (1907 TO DATE)

11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:317946

REFERENCE 2: 135:52699

REFERENCE 3: 134:303577

REFERENCE 4: 133:196882

REFERENCE 5: 130:54847

REFERENCE 6: 129:178541

REFERENCE 7: 125:16304

REFERENCE 8: 123:262989

REFERENCE 9: 121:114723

REFERENCE 10: 110:179699

L112 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2006 ACS on STN

RN **75349-09-6** REGISTRY

ED Entered STN: 16 Nov 1984

CN Cobalt, compd. with tin (3:1) (7CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Tin, compd. with cobalt (1:3)

MF Co . Sn

AF Co3 Sn

CI TIS

LC STN Files: CA, CAOLD, CAPLUS, USPAT2, USPATFULL

Component	1	Ratio	1	Component
	1		l	Registry Number
==========	=+===		===+=:	
Co	1	3	1	7440-48-4
Sn	1	1	1	7440-31-5

8 REFERENCES IN FILE CA (1907 TO DATE)

8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:390619

REFERENCE 2: 141:263470

REFERENCE 3: 135:229387

REFERENCE 4: 134:103240

REFERENCE 5: 110:237804

REFERENCE 6: 109:77838

REFERENCE 7: 106:106532

REFERENCE 8: 93:208671

L112 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2006 ACS on STN

RN **67828-86-8** REGISTRY

ED Entered STN: 16 Nov 1984

CN Tin alloy, base, Sn 80,Co 20 (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cobalt 33.3, tin 66.7 (atomic)

CN Cobalt 33.4, tin 66.6 (atomic)

MF Co . Sn

CI AYS

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

С	omponent	Component	Component
		Percent	Registry Number
=	=====+=	=========	+========
	Sn	80	7440-31-5
	Co	20	7440-48-4

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

21 REFERENCES IN FILE CA (1907 TO DATE)

21 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:317894

REFERENCE 2: 144:394647

REFERENCE 3: 144:334179

REFERENCE 4: 143:443501

REFERENCE 5: 140:393312

REFERENCE 6: 140:238516

REFERENCE 7: 132:351170

REFERENCE 8: 132:210263

REFERENCE 9: 130:54847

REFERENCE 10: 129:178541

L112 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2006 ACS on STN

RN **39286-52-7** REGISTRY

ED Entered STN: 16 Nov 1984

CN Cobalt alloy, nonbase, Co, Sn (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobalt alloys, tin- (7CI)

```
DR 115456-78-5
```

MF Co . Sn

CI AYS

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL

Component Component
Registry Number
Co 7440-48-4

Co 7440-48-4 Sn 7440-31-5

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

181 REFERENCES IN FILE CA (1907 TO DATE)
181 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:274916

REFERENCE 2: 145:274637

REFERENCE 3: 145:106785

REFERENCE 4: 145:66291

REFERENCE 5: 145:11258

REFERENCE 6: 144:471503

REFERENCE 7: 144:471416

REFERENCE 8: 144:471415

REFERENCE 9: 144:453258

REFERENCE 10: 144:436123

L112 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2006 ACS on STN

RN 12526-67-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN Cobalt, compd. with tin (3:2) (7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Tin, compd. with cobalt (2:3) (8CI)

MF Co . Sn

AF Co3 Sn2

CI TIS

LC STN Files: CA, CAOLD, CAPLUS, USPAT2, USPATFULL

Component	1	Ratio	1	Component Registry Number
=========	=+=====		==+=	
Co	1	3	1	7440-48-4
Sn	1	2	1	7440-31-5

36 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

37 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:107635

REFERENCE 2: 144:359090

REFERENCE 3: 144:112035

REFERENCE 4: 141:263470

REFERENCE 5: 141:91776

REFERENCE 6: 140:306707

REFERENCE 7: 140:238516

REFERENCE 8: 139:153047

REFERENCE 9: 139:24815

REFERENCE 10: 135:213506

L112 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2006 ACS on STN

RN 12394-61-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Cobalt, compd. with tin (1:2) (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Tin, compd. with cobalt (2:1)

MF Co . Sn

AF Co Sn2

CI TIS

LC STN Files: CA, CAOLD, CAPLUS, USPATFULL

Component	ı	Ratio		Component
	l I		1	Registry Number
==========	==+===	:=========	===+==	.25556
Co	i	1	1	7440-48-4
Sn	ı	2	1	7440-31-5

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 42 REFERENCES IN FILE CA (1907 TO DATE)
- 43 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:317946

REFERENCE 2: 145:127534

REFERENCE 3: 145:114142

REFERENCE 4: 144:316062

REFERENCE 5: 144:278264

REFERENCE 6: 143:329165

REFERENCE 7: 141:192960

REFERENCE 8: 140:238516

REFERENCE 9: 138:214466

REFERENCE 10: 135:346872

L112 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2006 ACS on STN

RN 12297-65-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN Cobalt, compd. with tin (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Tin, compd. with cobalt (1:1)

DR 32695-01-5

MF Co . Sn

AF Co Sn

CI TIS

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Component	   	Ratio		Component Registry Number
Co Sn	-=+=:   		:===+=   	7440-48-4 7440-31-5

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 56 REFERENCES IN FILE CA (1907 TO DATE)
- 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 57 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:317946

REFERENCE 2: 145:193050

REFERENCE 3: 145:107635

REFERENCE 4: 144:471517

REFERENCE 5: 144:278264

REFERENCE 6: 144:112035

REFERENCE 7: 141:413558

REFERENCE 8: 141:263470

REFERENCE 9: 141:91776

REFERENCE 10: 140:238516

L112 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2006 ACS on STN

RN **7440-31-5** REGISTRY

ED Entered STN: 16 Nov 1984

CN Tin (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN AT-SN

CN C.I. 77860

CN C.I. Pigment Metal 5

CN Metallic tin

CN Silver Matt Powder

CN Sn-HWQ

```
Sn-S 200
CN
CN
     Sn-S-HWQ
CN
     SNE 06PB
     TEGO 30
CN
     TEGO 60
CN
     Tin element
CN
     Tin Flake
CN
CN
     Tin Paste 62-1177
CN
     Tin Powder
     Wang
CN
MF
     Sn
CI
     COM
LC
     STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA,
       CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST,
       CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT,
       ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
       MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT,
       USPAT2, USPATFULL, VTB
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
```

Sn

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

95832 REFERENCES IN FILE CA (1907 TO DATE)
7033 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
95921 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:327278 REFERENCE 2: 145:327247 REFERENCE 3: 145:326989 REFERENCE 4: 145:326776 REFERENCE 5: 145:326774 REFERENCE 6: 145:326771 REFERENCE 7: 145:326760 REFERENCE 8: 145:326755 REFERENCE 9: 145:326701 REFERENCE 10: 145:326655

#### => d 1109 ide can tot

L109 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN
RN 82906-17-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Cadmium, compd. with lithium (1:3) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CRN

(14874-70-5)

```
Lithium, compd. with cadmium (3:1)
MF
    Cd . Li
AF
    Cd Li3
CI
    TIS
LC
    STN Files:
               CA, CAPLUS, USPATFULL
  Component
             1
                     Ratio
                                       Component
             -
                                  | Registry Number
Cd
                       1
             7440-43-9
Li
                       3
             1
                                          7439-93-2
              8 REFERENCES IN FILE CA (1907 TO DATE)
              8 REFERENCES IN FILE CAPLUS (1907 TO DATE)
REFERENCE
           1: 141:385435
REFERENCE
           2: 130:54847
REFERENCE
           3: 129:295170
REFERENCE
           4: 127:338493
REFERENCE
           5:
               120:195934
REFERENCE
           6:
               103:74767
REFERENCE
           7:
               98:136034
REFERENCE
           8: 97:119074
L109 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN
    14283-07-9 REGISTRY
    Entered STN: 16 Nov 1984
    Borate(1-), tetrafluoro-, lithium (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
    Lithium fluoborate (6CI)
    Lithium tetrafluoroborate (7CI)
OTHER NAMES:
CN
    Lithium boridefluoride (LiBF4)
    Lithium fluoroborate
CN
    Lithium tetrafluoroborate (LiBF4)
CN
CN
    Lithium tetrafluoroborate(1-)
DR
    12710-06-4
MF
    B F4 . Li
CI
    CCS, COM
LC
    STN Files:
               BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,
      CHEMLIST, CSCHEM, DETHERM*, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE,
      MSDS-OHS, TOXCENTER, USPAT2, USPATFULL
        (*File contains numerically searchable property data)
    Other Sources:
                     EINECS**, NDSL**, TSCA**
        (**Enter CHEMLIST File for up-to-date regulatory information)
```

• Li+

```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
```

3298 REFERENCES IN FILE CA (1907 TO DATE)

47 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3302 REFERENCES IN FILE CAPLUS (1907 TO DATE)

8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:318078

REFERENCE 2: 145:317982

REFERENCE 3: 145:317962

REFERENCE 4: 145:317937

REFERENCE 5: 145:316254

REFERENCE 6: 145:296168

REFERENCE 7: 145:296166

REFERENCE 8: 145:295936

REFERENCE 9: 145:293762

REFERENCE 10: 145:283349

L109 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN

RN 12372-42-8 REGISTRY

ED Entered STN: 16 Nov 1984

CN Indium, compd. with lithium (1:1) (7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN InLi (6CI)

CN Lithium, compd. with indium (1:1) (8CI)

DR 67759-95-9

MF In . Li

AF In Li CI TIS

CI TIS

LC STN Files: CA, CAOLD, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

Component		Ratio		Component Registry Number
==========	==+==	===============	=+=	================
In	1	1	Ì	7440-74-6
Li	1	1	Ì	7439-93-2

```
49 REFERENCES IN FILE CA (1907 TO DATE)
```

- 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 49 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 144:319037

REFERENCE 2: 138:307602

REFERENCE 3: 138:116340

REFERENCE 4: 138:31201

REFERENCE 5: 137:206776

REFERENCE 6: 135:128731

REFERENCE 7: 134:12672

REFERENCE 8: 130:54847

REFERENCE 9: 129:30865

REFERENCE 10: 120:195934

L109 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN

RN 12338-02-2 REGISTRY

ED Entered STN: 16 Nov 1984

CN Bismuth, compd. with lithium (1:3) (6CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Lithium, compd. with bismuth (3:1)

OTHER NAMES:

CN Lithium bismuthide (Li3Bi)

DR 64293-10-3

MF Bi . Li

AF Bi Li3

CI TIS

LC STN Files: CA, CAOLD, CAPLUS, CHEMLIST, MSDS-OHS, USPAT2, USPATFULL Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Component	1	Ratio	- 1	Component
	-		1	Registry Number
=======================================	==+==	=======================================	===+==	
Bi	1	1	1	7440-69-9
Li	- 1	3	- 1	7439-93-2

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 46 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 46 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:131130

REFERENCE 2: 140:114276

REFERENCE 3: 139:367433

```
REFERENCE
           4: 138:404345
REFERENCE
           5:
               138:156304
REFERENCE
            6: 137:177178
REFERENCE
           7: 136:388549
REFERENCE
           8:
               136:138091
           9: 135:213456
REFERENCE
REFERENCE 10: 134:198736
L109 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN
    7439-93-2 REGISTRY
RN
    Entered STN: 16 Nov 1984
ΕD
    Lithium (7CI, 8CI, 9CI) (CA INDEX NAME)
CN
OTHER NAMES:
    Lithium atom
CN
CN
    Lithium element
MF
    Li
CI
    COM
    STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA,
LC
      CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST,
      CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
      ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
      MRCK*, MSDS-OHS, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2,
      USPATFULL, VETU, VTB
         (*File contains numerically searchable property data)
    Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
```

Li

#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

82006 REFERENCES IN FILE CA (1907 TO DATE)
7586 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
82078 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:327279

REFERENCE 2: 145:327251

REFERENCE 3: 145:327247

REFERENCE 4: 145:327246

REFERENCE 5: 145:327050

REFERENCE 6: 145:326927

REFERENCE 7: 145:325929

```
REFERENCE
            8: 145:324674
REFERENCE
            9: 145:324673
REFERENCE 10: 145:324637
=> d his 148-
     (FILE 'HCAPLUS' ENTERED AT 10:04:19 ON 10 OCT 2006)
L48
              1 S US20040053131/PN
              1 S (US2003-664683# OR JP2002-271710)/AP,PRN
L49
L50
              1 S L48, L49
                SEL RN
     FILE 'REGISTRY' ENTERED AT 10:04:57 ON 10 OCT 2006
L51
             21 S E117-E137
L52
              7 S L51 AND (CO AND SN)/ELS
                E COSN/MF
L53
              3 S E3
L54
              1 S L53 NOT CCS/CI
                E COSN2/MF
L55
              2 S E3
L56
              1 S L55 NOT SN2C/ES
                E CO3SN2/MF
L57
              1 S TIN/CN
            185 S 7440-48-4/CRN AND 7440-31-5/CRN AND 2/ELC.SUB
L58
                E CO3SN2/MF
L59
              1 S E3
     FILE 'HCAPLUS' ENTERED AT 10:12:55 ON 10 OCT 2006
L60
              5 S L57 AND L56 AND L54 AND L59
                SEL RN
     FILE 'REGISTRY' ENTERED AT 10:13:46 ON 10 OCT 2006
L61
            187 S E1-E187
L62
             0 S L61 AND LI/ELS
L63
             21 S L51 AND L61
     FILE 'HCAPLUS' ENTERED AT 10:15:21 ON 10 OCT 2006
L64
            526 S L58
L65
             74 S L64 AND ?LITHIUM?
L66
             36 S L64 AND LI
L67
             76 S L65, L66
                SEL RN
     FILE 'REGISTRY' ENTERED AT 10:15:52 ON 10 OCT 2006
     FILE 'HCAPLUS' ENTERED AT 10:15:52 ON 10 OCT 2006
                                  973 TERMS
L68
                TRA L67 1- RN :
     FILE 'REGISTRY' ENTERED AT 10:15:54 ON 10 OCT 2006
L69
            973 SEA L68
L70
             59 S L69 AND LI/ELS
L71
             54 S L69 AND ?LITHIUM?/CNS
L72
             59 S L70, L71
     FILE 'HCAPLUS' ENTERED AT 10:16:36 ON 10 OCT 2006
```

L73

47 S L72 AND L64

```
FILE 'REGISTRY' ENTERED AT 10:19:50 ON 10 OCT 2006
L74
            177 S L61 NOT L58
L75
              0 S L74 AND (CO AND SN)/ELS
     FILE 'HCAPLUS' ENTERED AT 10:20:44 ON 10 OCT 2006
L76
            526 S L56, L65, L59, L58
L77
             74 S L76 AND ?LITHIUM?
L78
             36 S L76 AND LI
L79
             76 S L77, L78
L80
          95914 S L57
L81
           5567 S L80 AND ?LITHIUM?
L82
           3247 S L80 AND LI
L83
           6813 S L81, L82
L84
            127 S L80 AND L76
     FILE 'REGISTRY' ENTERED AT 10:24:59 ON 10 OCT 2006
     FILE 'HCAPLUS' ENTERED AT 10:24:59 ON 10 OCT 2006
L85
                TRA L84 1- RN : 1284 TERMS
     FILE 'REGISTRY' ENTERED AT 10:25:04 ON 10 OCT 2006
           1284 SEA L85
L86
             20 S L86 AND LI/ELS
L87
L88
             19 S L86 AND ?LITHIUM?/CNS
L89
             20 S L87, L88
              4 S L89 AND (SB OR B)/ELS
1.90
     FILE 'HCAPLUS' ENTERED AT 10:27:30 ON 10 OCT 2006
L91
              4 S L90 AND L84
L92
              1 S L91 AND 135:229387/DN
L93
             51 S L79 NOT L84
     FILE 'REGISTRY' ENTERED AT 10:29:26 ON 10 OCT 2006
     FILE 'HCAPLUS' ENTERED AT 10:29:26 ON 10 OCT 2006
L94
                TRA L93 1- RN : 672 TERMS
     FILE 'REGISTRY' ENTERED AT 10:29:28 ON 10 OCT 2006
L95
            672 SEA L94
             44 S L95 AND (?LITHIUM?/CNS OR LI/ELS)
L96
L97
              5 S L96 AND (IN OR B OR CD OR BI)/ELS
L98
              4 S L97 NOT N/ELS
     FILE 'HCAPLUS' ENTERED AT 10:31:55 ON 10 OCT 2006
L99
              2 S L98 AND L93
L100
              3 S L92, L99
L101
              3 S L100 AND L50, L60, L73, L76-L84, L91-L93, L99, L100
     FILE 'HCAPLUS' ENTERED AT 10:33:54 ON 10 OCT 2006
     FILE 'REGISTRY' ENTERED AT 10:34:44 ON 10 OCT 2006
    FILE 'HCAPLUS' ENTERED AT 10:34:44 ON 10 OCT 2006
L102
                TRA L101 1-3 RN :
                                    194 TERMS
     FILE 'REGISTRY' ENTERED AT 10:34:48 ON 10 OCT 2006
L103
            194 SEA L102
L104
              5 S L103 AND L58, L57, L56, L54, L59
L105
             6 S L103 AND L98, L90
L106
             16 S L103 AND LI/ELS
```

L107	15 S L103 AND ?LITHIUM?/CNS
L108	16 S L105-L107
	DEL SEL
	SEL RN 6 9 11 13 16
L109	5 S E1-E5
L110	4 S L57, L56, L54, L59
L111	4 S L104 NOT L110
L112	8 S L104, L110, L111
	·